

1. A refrigeration system dual circuit evaporator having alternating individual circuits that are constructed so that the flow of refrigerant through each circuit is in a direction diagonal to the direction of airflow through the evaporator, thereby allowing for the air flowing through the evaporator to come into contact with a portion of the active circuit across the entire face of the evaporator when one circuit is inactive.

2. A refrigeration system dual circuit evaporator having intertwined circuits that are constructed so that the flow of refrigerant through the active circuit, when one circuit is inactive, provides active circuit exposure throughout the entire face area of the evaporator, thereby allowing for the entire air flow passing through the evaporator to come into contact with a portion of the active circuit when one circuit is inactive.

3. A heat pump system dual circuit evaporator coil having alternating individual circuits that are constructed so that the flow of refrigerant through each circuit is in a direction diagonal to the direction of airflow through the evaporator, thereby allowing for the air flowing through the evaporator to come into contact with a portion of the active circuit across the entire face of the evaporator when one circuit is inactive.

4. A heat pump system dual circuit evaporator coil having intertwined circuits that are constructed so that the flow of refrigerant

through the active circuit, when one circuit is inactive, provides active circuit exposure through the entire face area of the evaporator, thereby allowing for the entire air flow passing through the evaporator to come into contact with a portion of the active circuit when one circuit is inactive.

5. A refrigeration system dual circuit evaporator coil having alternating circuits that are constructed so that the flow of refrigerant through each circuit is in a direction diagonal to the direction of the airflow through the evaporator and the piping is circuited to place warmest regions upstream in the air stream of colder regions and the coldest regions downstream of cold regions thereby more fully approaching a true thermal counter flow heat exchange evaporator system.

6. A refrigeration system dual circuit evaporator coil having intertwining circuits that are constructed so that the flow of refrigerant through the active circuit, when one circuit is inactive, provides active circuit exposure throughout the entire face area of the evaporator and the piping is circulated to place warmest regions upstream in the direction of the air stream of colder regions and the coldest regions downstream of the cold regions thereby more fully approaching a true thermal counter flow heat exchange evaporator system.

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